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Interactive attention network for adverse drug reaction classification

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Abstract

© Springer Nature Switzerland AG 2018. Detection of new adverse drug reactions is intended to both improve the quality of medications and drug reprofiling. Social media and electronic clinical reports are becoming increasingly popular as a source for obtaining the health-related information, such as identification of adverse drug reactions. One of the tasks of extracting adverse drug reactions from social media is the classification of entities that describe the state of health. In this paper, we investigate the applicability of Interactive Attention Network for identification of adverse drug reactions from user reviews. We formulate this problem as a binary classification task. We show the effectiveness of this method on a number of publicly available corpora.

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Keywords

Adverse drug reactions, Deep learning, Health social media analytics, Machine learning, Natural language processing, Text mining

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